

SEQUENCE LISTING

<110> Prashar, Yatindra
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<120> A Process to Study Changes in Gene Expression in T
Lymphocytes

<130> 44921-5004-WO

<140> PCT/US99/09761

<141> 1999-05-05

<150> US 60/084,329

<151> 1998-05-05

<160> 44

<170> PatentIn Ver. 2.1

<210> 1

<211> 238

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (11)..(231)

<223> n at positions 11, 30, 32 and 231 = a or c or g or
t.

<220>

<223> Jurkat cell cDNA

<400> 1

gacccatgtg nccccccagg cggtggcan tccccacggg aagtgtccac tgaggtccct 60
gagatggata cctctacctg acatggcctg aagatgcagg gcagaggaat tgcccatgga 120
cagtgcgca aggactaggc tgggagggag cgtgccaacc ccttttgct ctgggtttgg 180
ggagcggagg gcctcttctt ggtgccctgc cccaataaa ggaactggac naagagat 238

<210> 2

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (150)

<223> n = a or c or g or t.

<220>

<223> Jurkat cell cDNA

<400> 2
gatctcatga tgtggctggt gggaagatgg tggggtttgt ttgccagctt ggagtcctat 60
taaataaaag ccagcaactc atgttggtta taggtctact gtgggaacag ttatccctaa 120
ccacagctca aaatcgctat catctttagn caaattaaaa tctatgtggc agcg 174

<210> 3
<211> 175
<212> DNA
<213> Homo sapiens

<220>
<223> Jurkat cell cDNA

<400> 3
gatctggtga ctggcttttc gttctgtggt cttggcttcc taaatttata tgcccatatg 60
attctcatgc atttgatatt tatgtttaaa agtggttata tatgtatgta aaaagggaac 120
catatgtttt gagaatttgt aaagtgaagag acatgatcct attaaaataa gaagg 175

<210> 4
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (39)
<223> n = a or c or g or t.

<220>
<223> Jurkat cell cDNA

<400> 4
gatcctccat ggcccagcaa ggcccgaagat aaatccttna ccaccagggc accctgtgag 60
cccaacaggt taattagtc attaatTTTA gtgggacctg catatgttga aaattaccaa 120
tactgactga catgtgatgc tgacctatga taagggtgag tatttattag atgggaaggg 180
aaatttgggg attattttatc ctcctgggga cagtttgggg aggattattt attgtattta 240
tattgaatta tgtacttttt tcaataaaagt cttatttttg tggcg 285

<210> 5
<211> 182
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (33)..(136)
<223> n at positions 33, 56, 75, 93, 105, 110, 122 and
136 = a or c or g or t.

<220>
<223> Jurkat cell cDNA

<400> 5

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gatctgaaac ccaggttagg catgacattt canccccaaa ccctacctca tctgtnctga 60
aagacgctga aactncctgg gatgttttcg ggnacaagaa tgtanatttn ccctatccct 120
gnacttggtt taatcnaatc aatgtgtgta ttagaataaa agtcacagca tcccaaaagc 180
cg                                                                 182

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<210> 6
<211> 130
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (62)..(80)
<223> n = a or c or g or t.

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<220>
<223> Jurkat cell cDNA

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<400> 6
caggatctta aaaatcccag ccatctaaat atgtttccca actccattaa gtaaggtaaa 60
ataatatttg tatttatgtt cagatgttga agctgtcatt ctccaataaa actacacttt 120
agaaatggcg                                                                 130

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<210> 7
<211> 361
<212> DNA
<213> Homo sapiens

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<220>
<223> Jurkat cell cDNA

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<400> 7
gatcttttcga ggccagggtgc ccagggtcttt catcaagagc cccattttcca agtgctcagt 60
anccccctttt ggccagtgcn cccccaccac atgggacaag cgcagggtcca gtggcctccc 120
cagctgaccg caggcaggga acaaggcaga ccctagaggg ccaggccaca gcaggggctg 180
aggatgcctg gtgaatggat gcctggggaga atggatgcca gaattcacgc atgaggctct 240
gaacagggct gggaaaactt ccaaacgaag ggaagtcac gtcttggtgc actttgtgat 300
gatgcttcaa cagcaggact gagatgggga catttacaat aaacagaaat gtatgggctc 360
g                                                                 361

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<210> 8
<211> 176
<212> DNA
<213> Homo sapiens

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<220>
<223> Jurkat cell cDNA

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<400> 8
ggatcttgca cgtatctgtt ttcttcccc atgaactaga aaaccactta ctcccagaat 60
tcaggctcgtg cttgttagta ctatatcacc aagtcattc atttaatgat ccaaaactgt 120
aatgttgcac tgtattccaa ataaagggtg aaaacagaac caaagttata actccg 176

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<210> 9
<211> 128
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (57)..(58)
<223> n = a or c or g or t.

<220>
<223> Jurkat cell cDNA

<400> 9
gatcaattct atgtctgact ttgaaattcc atttacaatg tagtatgttt tcaatgnnaa 60
accataaagt aacatccaag tgtttcatgg tttgttggga aggtaatttt aaaataaaaac 120
aatttcg 128

<210> 10
<211> 138
<212> DNA
<213> Homo sapiens

<220>
<223> Jurkat cell cDNA

<400> 10
gatcaagtca ctgcatgttg agaagtatag gtataacttg tgaccatata acagctcctt 60
tatttatgta gtttcttcac attttatgtg tacaatcaag catgcctgct gaccaaggcc 120
agaggtggag tggaagcg 138

<210> 11
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<223> Jurkat cell cDNA

<400> 11
gatctcaaca ttgttggttt cttttgtttt tcatttggtta caactttctt gaatttagaa 60
attacatctt tgcagttctg ttaggtgctc tgtaattaac ctgacttata tgtgaacaat 120
tttcatgaga cagtcatttt taactaatga agtgattctt tctcactact atctgtattg 180
tggaatgcac aaaattgtgt aggtgctgaa tgctgtaagg agtttaggtt gtatgaattc 240
tacaacccta taataaattt tactctatac g 271

<210> 12
<211> 186
<212> DNA
<213> Homo sapiens

<220>
<221> unsure

<222> (20)..(115)
<223> n = a or c or g or t.

<220>
<223> Jurkat cell cDNA

<400> 12
gatccaaaac tatttgggan atgtatgggt agggtaaadc agtaagaggt gttatttggg 60
accttgtttt ggacagttta ccagttgcct tttatcccaa agttgttgta acctnctgtg 120
atacgatgct tcaagagaaa atgcgggttat aaaaaatggg tcagaattaa acttctaatt 180
cattcg 186

<210> 13
<211> 171
<212> DNA
<213> Homo sapiens

<220>
<223> Jurkat cell cDNA

<400> 13
ggatctgacc tccacggagc cgctgtcccc gccccctgc tcccgtctgt ctgtcctgtc 60
tgattctctt aggtgtcatg ttcttttttc tgtcttgtct tcaacttttt ttaaaaactag 120
attgctttga aaacatgact caataaaagt ttcttttcaa tttaaacacc g 171

<210> 14
<211> 151
<212> DNA
<213> Homo sapiens

<220>
<223> T lymphocyte cDNA

<400> 14
agctccagaa ggcgttggac aggctggagg agacagtcca ggccaagtag agccccacag 60
ggcctccagc agggtcagcc attcacaccc atccactcac ctcccattcc cagccacgtg 120
gcagagaaaa aaatcataat aaaatggctt t 151

<210> 15
<211> 148
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (3)..(40)
<223> n at positions 3, 4, 13, 30 and 40 = a or c or g
or t.

<220>
<223> T lymphocyte cDNA

<400> 15

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ttnngctacc tgngtccaag tcttggttn ccctttccan tcacttcact gtgcgctaag 60
gggtggggtg aggggatgga gagggagggc tgcctaccat ggtctggggc ttgaggaaga 120
tgagtttgtt gatttaaata aagaattt                                     148

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<210> 16
<211> 194
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (4)..(21)
<223> n at positions 4, 19 and 21 = a or c or g or t.

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<220>
<223> T lymphocyte cDNA

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<400> 16
ctantttaga tacgtccana nccaggaccg ctgagaactg ggacagtttc ctgggatgag 60
tgccagcctg agcctgcatg gtgccgcgga gcccggggtg gagggaggag ccaggcttcg 120
cttcaaggcg gcctctacct tttctcagaa tggtttcctg attgtgtcaa tgtgaaagtt 180
aaataaaaatt tatg                                             194

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<210> 17
<211> 116
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (7)..(79)
<223> n at positions 7-9, 18, 21, 24, 28, 29, 31, 33,
      42, 44, 46, 47, 52, 55, 58, 63, 69, 75, 78 and 79
      = a or c or g or t.

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<220>
<223> T lymphocyte cDNA

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<400> 17
cactgtnnng aacggtcntg cnangtanna ngncttctgc cnangnntct cncctncanc 60
aanaggcanc tttcntannt atcctaacaa gccttgacc aaatggaaat aacagc      116

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<210> 18
<211> 212
<212> DNA
<213> Homo sapiens

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<220>
<223> T lymphocyte cDNA

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<400> 18
gctttattgg agagatacac acaaaggctg tccactcact tccataattt cttgatggac 60
atgtttttct cactgtcctt ctgcatgacc ttggctactg ccatctcaaa gtcctcctga 120

```

gtgacatgga ctgcccgttc tcgcagggca tacatgccag cttctgtgca cagcccttc 180
acttcaagcc cctgatgctc ctggcatgag ct 212

<210> 19
<211> 189
<212> DNA
<213> Homo sapiens

<220>
<223> T lymphocyte cDNA

<400> 19
tgcatttatg gaaggcacat tacaggtctt tgtgggaaga aacagaaaga aatcacaaaa 60
gcaattaaga gagctcaaat aatgggggtt atgccagtta catacaagga tcctgcatat 120
ctcaaggacc ctaaagtctg taacatcaga tatcggaat aaattctatc acgttaccac 180
taataaact 189

<210> 20
<211> 219
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (2)..(5)
<223> n = a or c or g or t.

<220>
<223> T lymphocyte cDNA

<400> 20
antgnagggg aagctatgaa aggtgccggc ggatctacaa catggaaatg gctcgcaaga 60
tcaacttctt gatgcgaaag aatcgggcag atccgtggca gggctgctga ggctgtggg 120
tgggacaccc agtgcgaaac cctcatccag tttctctcc atctcttttc tttgtacaat 180
cccatttctt attaccattc tctgcaataa actcaaatc 219

<210> 21
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<223> T lymphocyte cDNA

<400> 21
agctcctccc tctggtggtg cttoctcagg gccaccatt gaagagggtg attaagccaa 60
ccaagtgtag atgtagcatt gttccacaca tttaaaacat ttgaaggacc taaattcgta 120
gcaaattctg tggcagtttt aaaaagttaa gctgctatag taagttactg ggcattctca 180
atacttgaat atggaacata tgcacagggg aaggaaataa cattgcactt tataaacact 240
gtattgtaag tggaaaatgc aatgtcttaa ataaaactat ttaaa 285

<210> 22

<211> 195
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (4)..(11)
<223> n = a or c or g or t.

<220>
<223> T lymphocyte cDNA

<400> 22
ctanttttaga tncgtccaca gccaggaccg ctgagaactg ggacagtttc ctgggatgag 60
tgccagcctg agcctgcatg gtgccgccga gcccggggtg gaggagggag ccaggcttcg 120
cttcaaggcg gcctctacct tttctcagaa tggtttcctg atttgtgtcaa tgtgaaagtt 180
aaataaaaatt tatgt 195

<210> 23
<211> 180
<212> DNA
<213> Homo sapiens

<220>
<223> T lymphocyte cDNA

<400> 23
tttgtgccgt ctctccattc cactgcctgt tgcagagttt ttctgtaact aaggggggttg 60
aggttattgt agacgttaga ttgcgggcac cgccagggat ttgcagcgc ttcagtgtac 120
gtgttagaga atattggaaa agcgtctgtg agccccgtgc tgtattttgt aataaagtct 180

<210> 24
<211> 138
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (4)
<223> n = a or c or g or t.

<220>
<223> T lymphocyte cDNA

<400> 24
aggntctctg agcacttacc gggcgtgacc gtttcttagg tgtgagaggg gctgtggcctt 60
ttgtgcagcg actatgttgg tgtaggggt ggtgtggaga ttgttaatct tgtataaagc 120
aattcaataa attgtttc 138

<210> 25
<211> 74
<212> DNA
<213> Homo sapiens

<220>
 <221> unsure
 <222> (5)..(11)
 <223> n at positions 5, 6 and 11 = a or c or g or t.

<220>
 <223> T lymphocyte cDNA

<400> 25
 cgagnngcaa ncttctgagg cggtgtgtgc acaagccttt cagggggcac attcacaagt 60
 acctgttgtg tccc 74

<210> 26
 <211> 119
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (4)..(25)
 <223> n at positions 4, 8, 11, 17 and 25 = a or c or g
 or t.

<220>
 <223> T lymphocyte cDNA

<400> 26
 tgtntccntg naagggncct tgcanagtaa tagggcttct gcctaagcct ctccctccaa 60
 gccaataggc agctttctta actatcctaa caagccttgg accaaatgga aataaagct 119

<210> 27
 <211> 253
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (4)..(52)
 <223> n at positions 4, 5, 15, 20, 32, 33, 37, 42, 45,
 47, 50 and 52 = a or c or g or t.

<220>
 <223> T lymphocyte cDNA

<400> 27
 gtgnnccagt cttgncttgn ccaccgcca gnnacangct gntcngnatn antatgaaga 60
 gctcaatgtc tggcaggta atgcttcccg gacacggatc acttttgtct gattccagcc 120
 tgcttgcaac cctgggggtcc tcttggtccc tgctggcctg ccccttgga aggggcagt 180
 atgcctttga ggggaaggag gagcccctct ttctcccatg ctgcacttac tccttttgct 240
 aataaaagtg ttt 253

<210> 28
 <211> 344

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (15)..(129)
<223> n at positions 15, 19, 24, 38, 40, 50, 59, 63, 68,
69, 87 and 129 = a or c or g or t.

<220>
<223> T lymphocyte cDNA

<400> 28
cgagtgtagc acaancatnc gacngggcgc ttcgccantn tcatcctttn tgggaacanc 60
aanatacann ctccatttct ggagtcnggg tcttccgaag ccaggagctt gcctttccgc 120
tgagtccana ttggcagggtg gactacgagt catcacatg gcggaaactg gatcctggca 180
gtgaggagac ccagacgctg gtctgagagt acttttctct ggagggggcc ttccagcatg 240
tgggcaaagc cttcaatcag ggcaagatct tcaagtgaac atctcttgcc atcacctagc 300
tgctgcacc tgcccttcag ggagatgggg gtcattaaag gaaa 344

<210> 29
<211> 456
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (6)..(454)
<223> n at positions 6, 28, 33, 40-42, 97, 113, 170,
202, 311, 347, 401, 409, 440, 444, 453, 454 = a or
c or g or t.

<220>
<223> T lymphocyte cDNA

<400> 29
agtgtntgcc cagggtctctg atgtgtcnct canagcttgn nnagcctgac acagctgtct 60
tgtgaggggac tgagatgcag gatttcttca cgctcncct ttgtgacttc aanagcctct 120
ggcatctctt tctgcaaagg cacctgaatg tgtctgcgtc cctgttagcn taatgtgagg 180
aggtggagag acagcccacc cntgtgtcca ctgtgacccc tgttcccatg ctgacctgtg 240
tttctctccc agtcatcttt cttgttccag agaggtgggg ctggatgtct ccattctctgt 300
ctcaacttta ngtgcactga gctgcaactt cttacttccc tactganaat aagaatctga 360
atatacattt gttttcccaa atatttggca tgaaaagggt ntggataant taataagcca 420
ttcccgggat tttgggaaan caanttttac cttnnga 456

<210> 30
<211> 122
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (6)..(83)
<223> n at positions 6, 18, 20, 27, 45, 53, 77, 78, 83 =

a or c or g or t.

<220>

<223> T lymphocyte cDNA

<400> 30

cgtggngctc aagtcttnan ctgcccnacg ggatcaaacc tttcnggcct gtnatgattc 60
tgaccatttg acttgannca cangtgaatc tttctcctgg tgactcaaataaaaagtataa 120
tt 122

<210> 31

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (4)..(6)

<223> n = a or c or g or t.

<400> 31

aggnanagtc catggggctg ccaacttcag acgaacagaa gaaacaggag attctgaaga 60
agttcatgga tcaacatccg gagatggatt tttccaaggc taaattcaac tagccccctgt 120
tttttctctc ctgaactctt ggggctgagc tgcaaccacc caactttctt tcccactctt 180
ctctgggact tgtgggcctc agggcttggg gcaggcatgg gactggccca ggcacacagg 240
tcccggggca tcaggagaaa ggctgggtct tgggacctg tctccccag ttggcctact 300
gttacacatt aaaacgattt 320

<210> 32

<211> 116

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (22)..(47)

<223> n at positions 22, 23, 35, 36 and 47 = a or c or
g or t.

<220>

<223> T lymphocyte cDNA

<400> 32

gtgggtccaa gtctttgttt gnnctaagat ttgtngctc tcagacngtg taaaacaaaa 60
tttattcatg ttttctgcat attaaaaaat cttattgtac caactggtaa actatt 116

<210> 33

<211> 210

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (25)..(122)
 <223> n at positions 25, 33, 42, 43, 58, 61 and 122 = a
 or c or g or t.

<220>
 <223> T lymphocyte cDNA

<400> 33
 tgtctccagg atctcatgag ccgcnacgtg ttnagagggt cnnccatcata cgggggagg 60
 ntggggcaaa tcgccacctg tacctttcct ctggccctgc tgccccaca cccaactccg 120
 anggccacg ctggggaaag cgggaagcgc tcgctccctt tccccatta gtgctctctc 180
 tgcttgatc ccggcagaag ctatgaaagg 210

<210> 34
 <211> 155
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (3)..(111)
 <223> n at positions 3, 5, 8, 17, 30, 36, 39, 49, 51,
 71, 99, 104 and 111 = a or c or g or t.

<220>
 <223> T lymphocyte cDNA

<400> 34
 tancntgnta cactcgntaa agaagagcan gatcangcna ctatactana ngtagcatc 60
 actaacgccc ncgcatgtgc atgaaacacc ttctctgcnc gccnattcca natttacact 120
 gggagagggtg ccagcaactg aataaatacc tctta 155

<210> 35
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: 5' PCR primer

<400> 35
 ctctcaagga tctaccgct 19

<210> 36
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: 5' PCR primer

<400> 36
 cagggtagac gacgctacgc 20

<210> 37
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: 5' PCR primer

 <400> 37
 taataccgcg ccacatagca 20

 <210> 38
 <211> 55
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: cDNA
 synthesis primer, 1-base anchored oligo (dT)
 primer

 <220>
 <221> variation
 <222> (55)
 <223> v at position 55 = a or c or g.

 <400> 38
 acgtaatacg actcactata gggcgaattg ggtcgacttt tttttttttt ttttv 55

 <210> 39
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: cDNA
 synthesis primer, 2-base anchored oligo (dT)
 primer RP5.0

 <400> 39
 ctctcaagga tcttaccgct tttttttttt ttttttttat 40

 <210> 40
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: cDNA
 synthesis primer, 2-base anchored oligo (dT)
 primer RP6.0

<400> 40
 taataaccgcg ccacatagca tttttttttt ttttttttcg 40

<210> 41
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: cDNA
 synthesis primer, 2-base anchored oligo (dT)
 primer RP9.2

<400> 41
 cagggtagac gacgctacgc tttttttttt ttttttttga 40

<210> 42
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Cloning
 adapter oligonucleotide A1

<400> 42
 tagcgtccgg cgcagcgacg gccag 25

<210> 43
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Cloning
 adapter oligonucleotide A2

<400> 43
 gatcctggcc gtcggctgtc tgtcggcgc 29

<210> 44
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<220>
 <221> variation
 <222> (39)..(40)
 <223> v at position 39 = a or c or g; n at position 40 =

a o r c o r g o r t .

<400> 44

tgaagccgag acgtcggtcg tttttttttt ttttttttn

40